Government of
Saskatchewan

Interim Annual Report
1989

Saskatchewan Health
Vital Statistics

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90-05524/

Department of Health

To the Honourable Sylvia Fedoruk
Lieutenant Governor of Saskatchewan

May It Please Your Honour:

I have the honour to present herewith, for your consideration, the Interim Report on Saskatchewan Vital Statistics for the calendar year 1989.

Respectfully submitted,

George McLeod
Minister of Health

Jack Wolfe
Associate Minister of Health

Department of Health

To the Honourable George McLeod
Minister of Health

Sir:

I have the honour to forward herewith the Interim Report on Saskatchewan Vital Statistics for the calendar year 1989.

This interim report presents a concise record of those vital events which occurred in Saskatchewan during the calendar year 1989.

The Final Vital Statistics Annual Report will be published following the Department of Health's receipt of additional information from Statistics Canada in Ottawa. For this reason, the data presented in this Vital Statistics Interim Report may not be reconciled with the information which will be presented in the Final Vital Statistics Annual Report.

Respectfully submitted,

Dr. Bill MacDonald
Deputy Minister of Health

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Terms and Definitions

A summary of symbols, definitions, and the method of computing rates used in this report are given below.

Definitions

Population	This report contains postcensal estimates for 1982 to 1985, 1987 to 1989, and final census figures for 1981 and 1986.
Live Births	Infants born alive, i.e., excluding stillbirths.
Stillbirths	Unless otherwise indicated, foetal deaths of 20 or more weeks' gestation.
Deaths	Excludes stillbirths.
Infant Deaths	Deaths under 1 year of age.
Neonatal Deaths	Deaths under 28 days (4 weeks) of age.
Perinatal Deaths	Foetal deaths of 20 or more weeks' gestation plus infant deaths under 7 days (1 week) of age.
Natural Increase	Excess of births over deaths.

Rates (unless otherwise indicated, computed as follows)

Live Births	: per 1,000 population
Stillbirths	: per 1,000 live births
Marriages	: per 1,000 population
Divorces	: per 100,000 population
Natural Increase	: per 1,000 population

Causes of Death

All Causes	: per 100,000 population
Infant	: per 1,000 live births
Neonatal	: per 1,000 live births
Perinatal	: per 1,000 live births and stillbirths

Notes

1. Causes of death are classified according to the 9th (1975) Revision of the International Classification of Diseases, Injuries and Causes of Death, which was put into effect on January 1, 1979.

Introduction

The Vital Statistics Interim Report presents a concise record of those vital events which occurred in Saskatchewan during the calendar year 1989. The Interim Report has been prepared in response to the requirements contained in the Tabling of Documents Act (1973). The present methods utilized in the collection of data for the Vital Statistics Annual Report do not permit the tabling of the Annual Report within the time frame established by this legislation. The Vital Statistics Annual Report will be published following the Department of Health's receipt of the necessary information from Statistics Canada in Ottawa.

The Vital Statistics Interim Report - 1989 records vital events by place of occurrence for 1989 (vital events which occurred in Saskatchewan in 1989). It includes for example, births to Saskatchewan residents who were in the province at the time of giving birth and residents of other provinces (or countries) who were in Saskatchewan at the time of giving birth. The data in this report are based on original registration forms and do not include amendments. The Vital Statistics Annual Report, on the other hand, records vital events by place of residence (vital events involving Saskatchewan residents whether or not the resident was in the province at the time of the event) and includes amended information. The vital events recorded in this report for years previous to 1989 are by place of residence.

Table 1. Summary of Vital Statistics, Saskatchewan, 1984 - 1989

Item	1984	1985	1986	1987	1988	1989*
Population	1,006	1,020	1,010	1,014	1,011	1,007
Live Births	18,014	18,162	17,513	17,034	16,763	16,572
Rate++	17.9	17.8	17.3	16.8	16.6	16.5
Deaths	7,710	8,031	8,061	7,808	8,100	7,861
Rate++	7.7	7.9	8.0	7.7	8.0	7.8
Natural Increase	10,304	10,131	9,452	9,226	8,663	8,711
Rate++	10.2	9.9	9.4	9.1	8.6	8.7
Infant Deaths	169	200	157	55	140	129
Rate**	9.4	11.0	9.0	9.1	8.4	7.8
Neonatal Deaths	101	123	96	87	84	79
Rate**	5.6	6.8	5.5	5.1	5.0	4.8
Perinatal Deaths						
20+ weeks gestation	214	207	181	163	162	146
Rate+++	11.8	11.3	10.2	9.5	9.6	8.8
28+ weeks gestation	173	166	143	135	130	114
Rate+++	9.6	9.1	8.1	7.9	7.8	6.9
Stillbirths						
20+ weeks gest.	128	111	108	95	94	84
Rate**	7.0	6.1	6.2	5.6	5.6	5.1
28+ weeks gest.	87	70	70	67	62	52
Rate**	4.8	3.8	4.0	3.9	3.7	3.1
Marriages	7,213	7,132	6,820	6,853	6,767	6,637
Rate++	7.2	7.0	6.8	6.8	6.7	6.6
Divorces and Annulments	1,988	1,927	2,449	2,909	2,442	2,417

* Preliminary figures - See Introduction, page 3
** Rate per 1,000 live births
++ Rate per 1,000 population
+++Rate per 1,000 total births (live births and stillbirths)

A. Population

1. The Historical Trend

The estimated population of 1,007,000 for 1989 is a decrease of 0.42 per cent over the 1988 estimated population of 1,011,200.

Table 2. The Historical Trend in Saskatchewan Population

Year	Population (000's)
1931	922
1941	896
1951	832
1961	925
1971	926
1981	968
1986	1,010
1989	1,007*

* Statistics Canada Postcensal Estimate.
All other figures are final census.

2. The Percentage Distribution of the Total Population

During the past 30 years, the proportion of older people (65 years of age and over) has been increasing in Canada as a whole and in Saskatchewan. In Saskatchewan, however, the proportion of persons 65 years of age and over is greater than in Canada as a whole (13.4 percent and 11.3 percent respectively).

Table 3. Distribution of Total Population, Saskatchewan, 1988 (000's)

Age Group	Canada		Saskatchewan	
	Number	Percent	Number	Percent
Total	26,218.5	100.0	1,007.0	100.0
0-19	7,375.3	28.1	319.7	31.7
20-44	10,780.2	41.1	375.6	37.3
45-64	5,092.0	19.5	176.7	17.6
65+	2,970.9	11.3	135.0	13.4

Table 4. Percentage Distribution by Sex, Saskatchewan, for Selected Years

Year	Male	Female	Males per 100 Females
1921	54.6	45.4	120
1931	54.2	45.8	119
1941	53.3	46.7	114
1951	52.2	47.8	109
1961	51.8	48.2	108
1971	50.8	49.2	103
1981	50.2	49.8	101
1986	50.0	50.0	100
1989	49.8	50.2	99

B. Births

1. Live Births

During the year 1989 a total of 16,572 live births occurred in the Province of Saskatchewan. This total includes births to Saskatchewan mothers residing in the Province of Saskatchewan at the time of giving birth and those births occurring to mothers who normally reside outside the province but who were in Saskatchewan at the time of giving birth.

The total of 16,572 live births represents a birth rate of 16.5 live births per 1,000 population, slightly lower than last year's birth rate.

The 1988 live birth rates for Saskatchewan, for Canada, and for the Provinces are shown below for comparison.

Table 5. Live Birth Rates per 1,000 Population, Canada and Provinces, 1988

Province	Rate
Canada	14.5
Newfoundland	13.2
Prince Edward Island	15.4
Nova Scotia	13.8
New Brunswick	13.5
Quebec	13.0
Ontario	14.6
Manitoba	15.7
Saskatchewan	16.6
Alberta	17.5
British Columbia	14.4

2. Stillbirths

During the year 1989 a total of 84 stillbirths occurred in the province. The definition of occurrence is given in the introduction. The 84 stillbirths occurred after 20 or more weeks gestation; 52 of the stillbirths occurred after 28 or more weeks gestation. These two totals represent rates of 5.1 and 3.1 stillbirths per 1,000 live births, respectively.

C. Deaths

During the year 1989 a total of 7,861 deaths occurred within the Province of Saskatchewan. This represents a crude death rate of 7.8 deaths per 1,000 population, slightly lower than the crude death rate experienced in 1988.

The 1988 crude death rates for Saskatchewan, for Canada, and for the provinces are shown in the table below for comparison.

Table 6. Crude Death Rates per 1,000 Population, Canada and Provinces, 1988

Province	Rate
Canada	7.2
Newfoundland	6.3
Prince Edward Island	8.5
Nova Scotia	8.4
New Brunswick	7.6
Quebec	7.1
Ontario	7.4
Manitoba	8.4
Saskatchewan	8.0
Alberta	5.7
British Columbia	7.4

Table 7. Age Specific Death Rates per 1,000 Population, Saskatchewan, 1975 - 1989

Year	All Ages	Age Group Under 5	5-14	15-24	25-44	45-64	65+
1975	8.5	4.6	0.4	1.4	1.7	7.5	53.0
1976	8.5	3.8	0.4	1.4	1.8	8.0	52.5
1977	8.1	4.0	0.4	1.6	1.6	7.0	50.3
1978	8.2	4.0	0.5	1.3	1.6	7.3	50.2
1979	7.7	3.2	0.3	1.4	1.6	7.1	46.3
1980	8.0	3.0	0.3	1.2	1.5	7.2	48.1
1981	7.8	3.1	0.4	1.2	1.4	7.1	46.1
1982	8.4	2.6	0.3	1.3	1.3	7.7	49.8
1983	7.7	2.5	0.3	1.1	1.3	6.7	45.6
1984	7.7	2.4	0.2	0.9	1.3	6.8	45.0
1985	7.9	2.7	0.3	1.0	1.2	7.0	47.0
1986	8.0	2.3	0.3	1.2	1.2	7.2	46.5
1987	7.7	2.2	0.4	1.1	1.1	6.6	44.8
1988*	8.0	2.0	0.3	1.0	1.2	6.6	46.3
1989*	7.8	1.9	0.2	0.8	1.1	6.1	45.4

* Preliminary figures.

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 1989

	Deaths	Percent	Rate*
All Causes of Death	7,861	100.0	780.6
01 Intestinal Infectious Diseases	3	0.0	0.3
02 Tuberculosis	5	0.1	0.5
03 Other Bacterial Diseases	30	0.4	3.0
04 Viral Diseases	14	0.2	1.4
07 Other Infectious, Parasitic Diseases	1	0.0	0.1
08 M N of Lip, Oral Cavity, Pharnyx	36	0.5	3.6
09 M N of Digestive Organs, Peritoneum	521	6.6	51.7
10 M N of Respiratory & Related Organs	462	5.9	45.9
11 M N of Bone, Skin, Breast	194	2.5	19.3
12 M N of Genitourinary Organs	322	4.1	32.0
13 M N of Other & Unspecified Sites	124	1.6	12.3
14 M N of Lymph & Haemopoietic Tissue	181	2.3	18.0
15 Benign Neoplasm	4	0.1	0.4
17 Other & Unspecified Neoplasm	36	0.5	3.6
18 Endocrine & Metabolic Diseases	171	2.2	17.0
19 Nutritional Deficiencies	14	0.2	1.4
20 Diseases of Blood/Forming Organs	39	0.5	3.9
21 Mental Disorders	71	0.9	7.1
22 Diseases of the Nervous System	197	2.5	19.6
25 Rheumatic Fever/Heart Disease	34	0.4	3.4
26 Hypertensive Disease	41	0.5	4.1
27 Ischaemic Heart Disease	1,906	24.2	189.3
28 Pulmonary & Other Heart Disease	589	7.5	58.5
29 Cerebrovascular Disease	649	8.3	64.4
30 Other Diseases of Circulatory System	246	3.1	24.4
31 Diseases of Upper Respiratory Tract	6	0.1	0.6
32 Other Diseases of Respiratory System	744	9.5	73.9
34 Other Parts of Digestive System	291	3.7	28.9
35 Diseases of Urinary System	121	1.5	12.0
36 Diseases of Male Genital Organs	4	0.1	0.4
37 Diseases of Female Genital Organs	2	0.0	0.2
39 Direct Obstetric Causes	1	0.0	0.1
42 Diseases of Skin	3	0.0	0.3
43 Musculoskeletal & Connective Tissue	39	0.5	3.9
44 Congenital Anomalies	45	0.6	4.5
45 Conditions in Perinatal Period	64	0.8	6.4
46 Symptoms & Ill-Defined Conditions	60	0.8	6.0
E47 Transport Accidents	210	2.7	20.9
E48 Accidental Poisoning	23	0.3	2.3
E49 Misadventures During Medical Care	7	0.1	0.7
E50 Accidental Falls	93	1.2	9.2
E51 Accidents Caused by Fires & Flames	13	0.2	1.3
E52 Other Accidents, Late Effects	85	1.1	8.4
E53 Effects of Drugs and Medication	3	0.0	0.3
E54 Suicide and Self-Inflicted Injury	122	1.6	12.1
E55 Homicide & Intentional Injury	21	0.3	2.1
E56 Other Violence	14	0.2	1.4

*Crude Rate per 100,000 population (Statistics Canada Population Base)

Accidents and Violence

During the year 1989 a total of 431 deaths due to accidents occurred in the Province of Saskatchewan. This represents a rate of 42.8 deaths by accident per 100,000 population in 1989 as compared to a rate of 46.5 deaths by accident per 100,000 population in 1988.

The number of suicides which occurred in Saskatchewan during 1989 was 122, a rate of 12.1 suicides per 100,000 population, down from the 1988 number of 145.

There were 21 homicides in Saskatchewan in 1989, a slight increase from the 1988 number of 20 homicides.

D. Natural Increase in Population

In 1989 the natural increase was 8,711 and the estimated actual increase was -4,200, giving rates per 1,000 population of 8.7 and -4.2 respectively.

Table 9. Natural Increase and Actual Increase, Saskatchewan, 1976 - 1989*

Year	Population	Live Births	Deaths	Natural Increase		Est. Actual Incr.	
				Number	Rate per 1,000 pop	Number	Rate per 1,000 pop
1976	921,325	15,969	7,809	8,160	8.9	13,925	15.1
1977	934,600	16,547	7,594	8,953	9.6	13,275	14.2
1978	943,500	16,551	7,749	8,802	9.3	8,900	9.4
1979	952,500	16,944	7,369	9,575	10.0	9,000	9.4
1980	961,100	17,057	7,651	9,406	9.8	8,600	8.9
1981	968,313	17,209	7,523	9,686	10.0	7,213	7.4
1982	981,400	17,759	8,173	9,586	9.8	13,087	13.3
1983	992,700	17,823	7,620	10,203	10.3	11,300	11.4
1984	1,006,200	18,090	7,712	10,378	10.3	13,500	13.4
1985	1,019,500	18,233	8,003	10,230	10.0	13,300	13.0
1986	1,010,198	17,507	8,012	9,495	9.4	-9,302	-9.2
1987	1,014,000	17,007	7,769	9,238	9.1	3,802	3.7
1988	1,011,200	16,763	8,100	8,663	8.6	-2,800	-2.8
1989	1,007,000	16,572	7,861	8,711	8.7	-4,200	-4.2

* See footnotes in Table 1.

E. Marriages

During the year 1989 a total of 6,637 marriages occurred in Saskatchewan. This total represents a rate of 6.6 marriages per 1,000 population. Marriage rates for Canada, the Provinces, and Saskatchewan for 1988 are given below for comparison.

Table 10. Marriage Rate per 1,000 Population, Canada and the Provinces, 1988

Province	Rate
Canada	7.2
Newfoundland	6.5
Prince Edward Island	7.5
Nova Scotia	7.8
New Brunswick	7.4
Quebec	5.0
Ontario	8.3
Manitoba	7.3
Saskatchewan	6.7
Alberta	8.0
British Columbia	8.2

F. Divorces

In 1989 a total of 2,417 divorces and annulments were registered under the Vital Statistics Act in Saskatchewan at the time of publication. This does not represent the total number of divorce petitions filed in 1989 since some petitions are not yet finalized.

G. Life Expectancy

A life expectancy table is, in effect, the history of mortality of 100,000 male babies and of 100,000 female babies born at the same time. Life expectancy figures provide a graphic picture of the extent to which the saving of lives has gradually prolonged the average expectation of life and are a fairly good reflection of the general health and survival conditions at the time of their compilation.

According to the Saskatchewan life table compiled on the basis of the 1986 census, the life expectancy at birth reached an all time peak for females, 80.47 years, and for males, 73.66 years. The gain in life expectancy is greater in females. A sharp rise in the probability of death begins at age 55 for males and at 65 for females. The decrease in life expectancy is greater for males than for females.

Table 11. Life Expectancy, Saskatchewan, 1941, 1961, 1981, 1986

	Life Expectancy				Gain or Loss In Life Expectancy		
	1941	1961	1981	1986	1961 over 1941	1981 over 1961	1986 over 1981
				Males			
At Birth	65.43	70.27	72.43	73.66	4.84	2.16	1.23
20	51.28	53.49	54.35	55.28	2.21	0.86	0.93
40	33.32	34.99	35.92	36.70	1.67	0.93	0.78
60	16.82	18.10	19.09	19.62	1.28	0.99	0.53
80	5.76	6.31	7.16	7.59	0.55	0.85	0.43
				Females			
At Birth	68.19	75.93	79.61	80.47	7.74	3.68	0.86
20	53.08	58.35	60.85	61.64	5.27	2.50	0.79
40	34.96	39.09	41.64	42.28	4.13	2.55	0.64
60	18.26	21.09	23.65	24.21	2.83	2.56	0.56
80	6.38	7.29	8.94	9.40	0.91	1.65	0.46

Note: Source of figures for 1941: Life Tables for Canada and Regions, 1941 and 1931, D.B.S. Ottawa 1947. These figures have been calculated for the prairie provinces. The figures for 1961 were calculated for Saskatchewan by the Department of Health. The figures for 1981 and 1986 were taken from the Statistics Canada publication, Life Tables, Canada and Provinces, 1980-1982 and 1985-1987.

H. Adoptions

There were 494 adoptions registered in Saskatchewan during 1989, compared to 568 adoptions in 1988. The total of 494 adoptions registered includes out-of-province adoptions of persons born in Saskatchewan as well as adoptions in Saskatchewan of persons born elsewhere.

I. Legal Changes of Name

During 1989 a total of 767 legal changes of name were registered in Saskatchewan. This represents a slight increase from the 766 changes of name registered in 1988. The total of 767 does not reflect the number of persons who changed their name as each application may affect more than one person and in some cases, an entire family.